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L4	L3 and protection near switching	93	L4
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L2	370/228.ccls.	435	L2

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21 Report on the Workshop on Quality of Service Issues in High Speed Networks　　　　▬
S. Keshav
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5

Full text available: 🗎 pdf(1.28 MB)　　　Additional Information: full citation, index terms

22 Generalized loop-back recovery in optical mesh networks　　　　　　　　　　　　▬
Muriel Médard, Richard A. Barry, Steven G. Finn, Wenbo He, Steven S. Lumetta
February 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 1

Full text available: 🗎 pdf(243.86 KB)　　Additional Information: full citation, abstract, references, citings, index terms

> Current means of providing loop-back recovery, which is widely used in SONET, rely on ring topologies, or on overlaying logical ring topologies upon physical meshes. Loop-back is desirable to provide rapid preplanned recovery of link or node failures in a bandwidth-efficient distributed manner. We introduce generalized loop-back, a novel scheme for performing loop-back in optical mesh networks. We present an algorithm to perform recovery for link failure and one to perform generalized loop-back ...

> **Keywords**: WDM, loop-back, mesh networks, network restoration

23 Coupling compiler-enabled and conventional memory accessing for energy efficiency　▬
Raksit Ashok, Saurabh Chheda, Csaba Andras Moritz
May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

Full text available: 🗎 pdf(1.41 MB)　　Additional Information: full citation, abstract, references, index terms

> This article presents Cool-Mem, a family of memory system architectures that integrate conventional memory system mechanisms, energy-aware address translation, and compiler-enabled cache disambiguation techniques, to reduce energy consumption in general-purpose architectures. The solutions provided in this article leverage on interlayer tradeoffs between architecture, compiler, and operating system layers. Cool-Mem achieves power reduction by statically matching memory operations with energy-eff ...

> **Keywords**: Energy efficiency, translation buffers, virtually addressed caches

24 The next generation of internetworking
Gurudatta M. Parulkar
December 1989 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 1

Full text available: pdf(1.86 MB)   Additional Information: full citation, abstract, citings, index terms

This paper describes a research effort concerned with the design of the next generation of internet architecture, which has been necessitated by two emerging trends. First, there will be at least a few orders of magnitude increase in data rates of communication networks in the next few years. For example, researchers are already prototyping networks with data rates of up to a few hundred Mbps, and are planning networks with data rates up to a few Gbps. Second, researchers from all disciplines of ...

25 Transporting compressed video over ATM networks with explicit-rate feedback control
T. V. Lakshman, P. P. Mishra, K. K. Ramakrishnan
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Full text available: pdf(232.17 KB)   Additional Information: full citation, references, citings, index terms

Keywords: ATM, congestion control, packet video

26 Papers: Context-agile encryption for high speed communication networks
Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

27 Computer Communication Networks: Approaches, Objectives, and Performance Considerations
Stephen R. Kimbleton, G. Michael Schneider
September 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 3

Full text available: pdf(3.99 MB)   Additional Information: full citation, references, citings, index terms

28 Reservation-based bandwidth allocation in a radio ATM network
George M. Stamatelos, Vassilios N. Koukoulidis
June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3

Full text available: pdf(300.68 KB)   Additional Information: full citation, references, citings, index terms

Keywords: bandwidth aloocation, broadband ATM networks, radio LANs, wireless multimedia

29 Credit-based fair queueing (CBFQ): a simple service-scheduling algorithm for packet-switched networks

Brahim Bensaou, Danny H. K. Tsang, King Tung Chan
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

Full text available: 📄 pdf(282.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a simple rate-based scheduling algorithm for packet-switched networks. Using a set of counters to keep track of the credits accumulated by each traffic flow, the bandwidth share allocated to each flow, and the size of the head-of-line (HOL) packets of the different flows, the algorithm decides which flow to serve next. Our proposed algorithm requires on average a smaller complexity than the most interesting alternative ones while guaranteeing comparable fairness, delay, and d ...

Keywords: Fair queueing, packet scheduling, quality of service, traffic control

30 Transaction papers: Traffic equivalence and substitution in a multiplexer with applications to dynamic available capacity estimation
Costas A. Courcoubetis, Antonis Dimakis, George D. Stamoulis
April 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 2

Full text available: 📄 pdf(486.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

For a multiplexer fed by a large number of sources, we derive conditions under which a given subset of the sources can be substituted for a single source while preserving the buffer overflow probability and the dominant timescales of buffer overflows. This notion of traffic equivalence is stronger than simple effective bandwidth equality and depends on the multiplexing context. We propose several applications of the above traffic substitution conditions. First, we show that fractional Brownian m ...

Keywords: available capacity, call admission control, effective bandwidth, many-sources asymptotic, on-line estimation, traffic modeling

31 The SHRIMP performance monitor: design and applications
Margaret Martonosi, Douglas W. Clark, Malena Mesarina
January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**
Full text available: 📄 pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

32 Telecommunications: Satellite communications representation in network simulation
Kenneth Y. Jo
December 2001 **Proceedings of the 33nd conference on Winter simulation**
Full text available: 📄 pdf(412.32 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents methodologies to represent satellite communications (SATCOM) behaviors in network simulation. This paper is based on tasks performed for generic network warfare simulation that employs traditional network simulation models. The methodologies also include the integration issues of SATCOM tools and the network simulation models. We first characterize space segments and assets involved in warfare operations and exercises, and then analyze system behaviors to measure space-link p ...

33 Redundant trees for preplanned recovery in arbitrary vertex-redundant or edge-redundant graphs
Muriel Médard, Steven G. Finn, Richard A. Barry

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5
Full text available: ⬛ pdf(251.44 KB)   Additional Information: full citation, references, citings, index terms

Keywords: graph theory, multicasting, network recovery, network robustness, routing, trees

34 Early experience with message-passing on the SHRIMP multicomputer
Edward W. Felten, Richard D. Alpert, Angelos Bilas, Matthias A. Blumrich, Douglas W. Clark, Stefanos N. Damianakis, Cezary Dubnicki, Liviu Iftode, Kai Li
May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture**, Volume 24 Issue 2
Full text available: ⬛ pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

The SHRIMP multicomputer provides virtual memory-mapped communication (VMMC), which supports protected, user-level message passing, allows user programs to perform their own buffer management, and separates data transfers from control transfers so that a data transfer can be done without the intervention of the receiving node CPU. An important question is whether such a mechanism can indeed deliver all of the available hardware performance to applications which use conventional message-passing I ...

35 The Multics kernel design project
Michael D. Schroeder, David D. Clark, Jerome H. Saltzer
November 1977 **Proceedings of the sixth ACM symposium on Operating systems principles**
Full text available: ⬛ pdf(1.31 MB)   Additional Information: full citation, abstract, references, citings, index terms

We describe a plan to create an auditable version of Multics. The engineering experiments of that plan are now complete. Type extension as a design discipline has been demonstrated feasible, even for the internal workings of an operating system, where many subtle intermodule dependencies were discovered and controlled. Insight was gained into several tradeoffs between kernel complexity and user semantics. The performance and size effects of this work are encouraging. We conclude that verifi ...

Keywords: Multics, Operating systems, Protection, Security, Security kernel, Supervisors, Type extension, Verifiable systems

36 Design and realization of MLM: a multilingual machine
F. M G Franca, N. Q. Vasconcelos, E. S T Fernandes
December 1986 **ACM SIGMICRO Newsletter , Proceedings of the 19th annual workshop on Microprogramming**, Volume 17 Issue 4
Full text available: ⬛ pdf(986.59 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes the design and realization of MLM, a Multi-Lingual machine whose main goal is to provide support for teaching and research in Microprogramming and Computer Architecture. MLM is based on a standard (non-microprogrammable) minicomputer whose microarchitecture has been modified in order to satisfy the requirements of a multi-lingual environment. The resulting machine is microprogrammable, offers facilities for interpreting different target repertoires, and has m ...

37 A comparative analysis of fuzzy versus conventional policing mechanisms for ATM networks

Vincenzo Catania, Giuseppe Ficili, Sergio Palazzo, Daniela Panno
June 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 3
Full text available: pdf(1.72 MB)   Additional Information: full citation, references, citings, index terms

38 ARPS: a new real-time computer
Kenneth J. Thurber
October 1976 **ACM SIGARCH Computer Architecture News**, Volume 5 Issue 4
Full text available: pdf(1.14 MB)   Additional Information: full citation, references, citings

39 A comparative study of fuzzy versus "fixed" thresholds for robust queue management
in cell-switching networks
Allen R. Bonde, Sumit Ghosh
August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4
Full text available: pdf(976.98 KB)   Additional Information: full citation, references, citings, index terms

40 Trunking of TDM and narrowband services over IP Networks
James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1
Full text available: pdf(418.58 KB)   Additional Information: full citation, abstract, references, citings, index
terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems
from the possibility of using a common transport network for voice, video, and data, and
the flexibility with which new services can be introduced. A key step in the evolution of
networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the
IP networks with the existing networks and services, particularly with the circuit switched
telephone network. A &I ...

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Patent Assignment Abstract of Title

Total Assignments: 1

Application #: 09990023 **Filing Dt:** 11/21/2001   **Patent #:** NONE   **Issue Dt:**

PCT #: NONE   **Publication #:** US20030095502   **Pub Dt:** 05/22/2003

Inventors: Donald J. Glaser, Anthony Barrera, William W. Lu, Dennis P. Miller

Title: Protection switching mechanism

Assignment: 1

Reel/Frame: 012324/0212	**Received:** 11/30/2001	**Recorded:** 11/21/2001	**Mailed:** 01/23/2002	**Pages:** 6

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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